

What is claimed is:

1. A method for producing an organic acid, which comprises:

mixing a compound containing one or two aldehyde groups

5 and a solvent to obtain a reaction mixture; and

maintaining the reaction mixture in a liquid phase in the presence of pure oxygen or O<sub>2</sub>-enriched air containing 25-90% oxygen at a temperature of 0-70°C, under a pressure condition of an atmospheric pressure to 10kg/cm<sup>2</sup>, and for 2-10 hours.

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2. The method of claim 1, wherein the solvent is used in an amount of 1-55 wt%, based on 100 wt% of the aldehyde group-containing compound.

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3. The method of claim 1, wherein the aldehyde group-containing compound is selected from the group consisting of formaldehyde, acetaldehyde, propionaldehyde, n-butyraldehyde, i-butyraldehyde, 2-methylbutyraldehyde, n-valeraldehyde, caproaldehyde, heptylaldehyde, nonylaldehyde, and 2-ethylhexylaldehyde.

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4. The method of claim 1, wherein the solvent is selected from the group consisting of ketones, alcohols, esters, ethers, hydroxyl group-containing compounds, and a mixture thereof.

5. An organic acid produced by the method of claim 1.